

**AMENDMENTS TO THE CLAIMS****Claims 1-23 (Canceled)**

**Claim 24 (Amended)** A thermal barrier coating arrangement comprising:

a base material of a heat resistant alloy; and

a ceramics layer formed on said base material for enhancing heat resistance of said base material;

wherein said ceramics layer comprises  $\text{ZrO}_2$  provided with  $\text{Yb}_2\text{O}_3$  of 10 weight % or more and 25 weight % or less as a stabilizer;

wherein said ceramics layer has cracks introduced into said ceramics layer that extend in a thickness direction of said ceramics layer; and

wherein said cracks are introduced into said ceramics layer such that they extend in a range of  $\pm 40^\circ$  relative to a normal line to a face of said ceramics layer and not outside the range; and

wherein said ceramics layer has fine pores formed therein and a porosity of said pores relative to said ceramics layer is 8% or more and 15% or less.

**Claim 25 - 31 (Canceled)**

**Claim 32 (Amended)** A thermal barrier coating arrangement as claimed in Claim 24, wherein a  $\text{Yb}_2\text{O}_3$  addition quantity in said ceramics layer is 815 weight % or more and 2720 weight % or less.

**Claim 33 (Canceled)**

**Claim 34 (Previously Presented)** A thermal barrier coating arrangement as claimed in Claim 24, wherein an interval between adjacent said cracks is 0.05 to 1 times the thickness of said ceramics layer.

**Claim 35 (Previously Presented)** A thermal barrier coating arrangement as claimed in Claim 24, wherein said ceramics layer in which said cracks are introduced has a corrosive

component penetration preventing layer that is made of the same material as said ceramics layer and is formed on said ceramics layer.

**Claim 36 (Previously Presented)** A thermal barrier coating arrangement as claimed in Claim 35, wherein said corrosive component penetration preventing layer has a thickness of 5 to 50  $\mu\text{m}$  and a porosity of 4 to 20%.

**Claim 37 (Previously Presented)** A thermal barrier coating arrangement as claimed in Claim 24, wherein a metallic bond layer is provided between said base material and said ceramics layer.

**Claim 38 (Previously Presented)** A turbine part comprising a thermal barrier coating as claimed in Claim 24.

**Claim 39 (Previously Presented)** A gas turbine comprising a turbine part as claimed in Claim 38.

**Claim 40-42 (Canceled)**